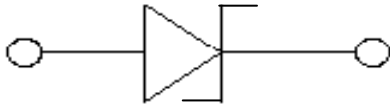


Zener Diodes



Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 100V



Mechanical Data

- **Package:** SOD-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Power Dissipation*(note)	P _D	mW	200
Storage Temperature Range	T _{stg}	°C	-55~+150
Junction Temperature	T _J	°C	150
Maximum Forward Voltage @I _F =10mA	V _F	V	0.9
Maximum Regulator Current	I _{ZM}	mA	P _D / V _Z

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

Type Number	Device Marking	V _Z at I _Z T (V)				I _R (μA)@V _R	
		min.	typ.	max.	I _Z T(mA)	max	V _R (V)
BZT52C100S	7T	95	100	105	1	0.2	76

■Ordering Information (Example)

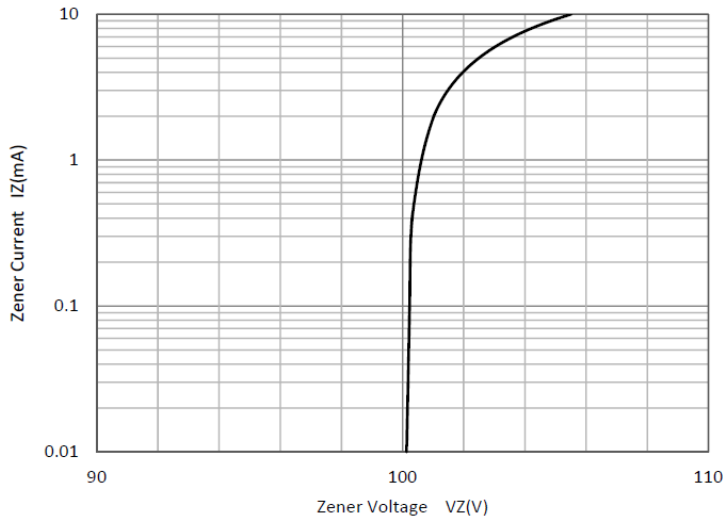
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZT52C100S	F2	Approximate 0.004	3000	30000	120000	7" reel



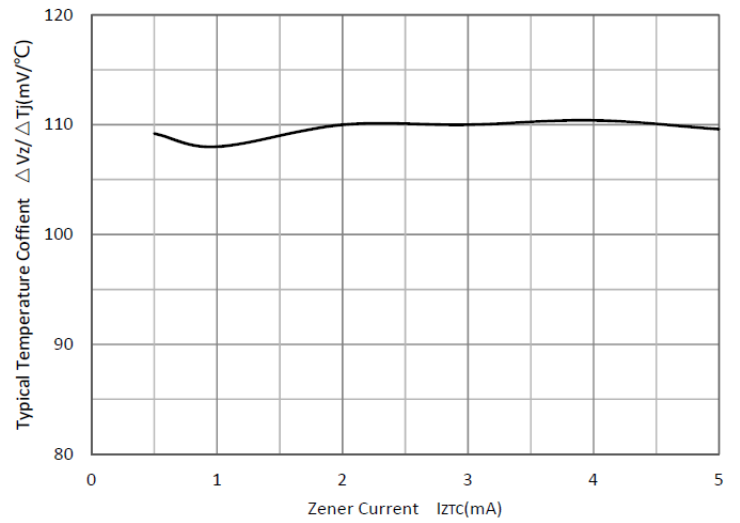
BZT52C100S

■ Characteristics (Typical)

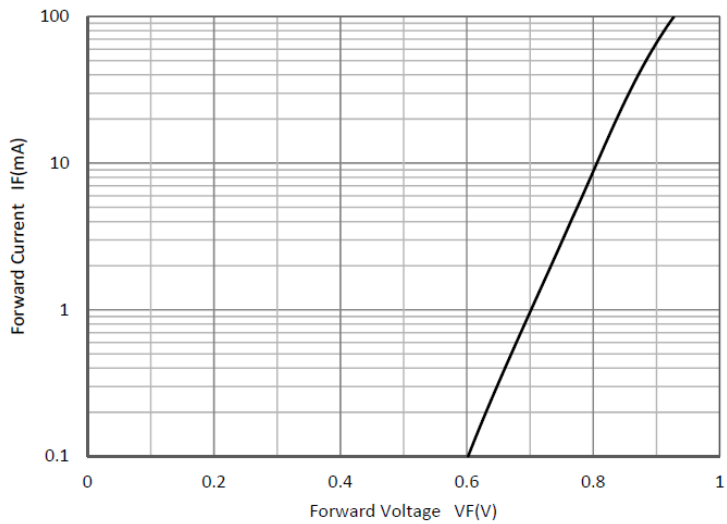
Zener Breakdown Characteristics



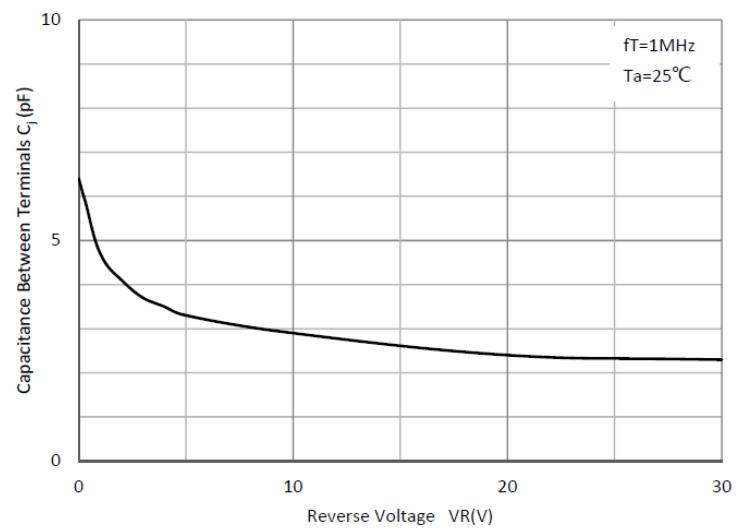
Temperature coefficient



VF-IF



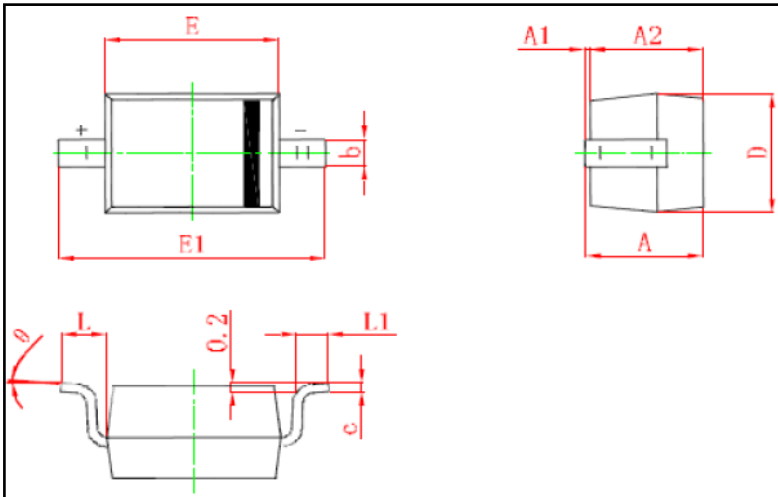
Cj-VR





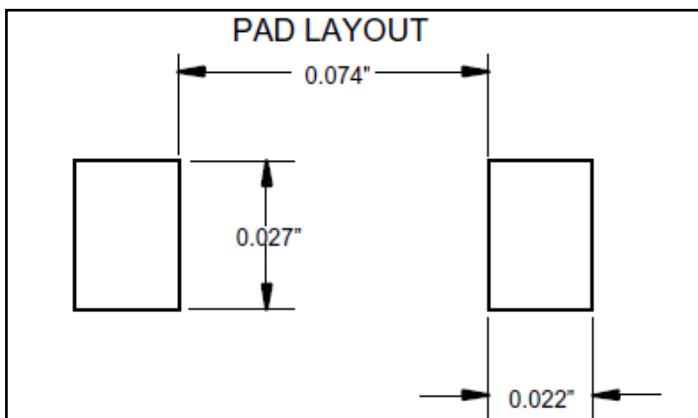
BZT52C100S

■ SOD-323 Package Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

■ SOD-323 Soldering Footprint





Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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